Diagram

Secondary and tertiary Alcohol

+(0)

KMnO, / H,SO,

(Oxidation)

+(0)

KMnO, / H, SO,



$$CH_2 = CH - CH_3$$

Propene

(Alkalin Hyd.)

(Hydrolysis)

Iso Propyl Alcohol

$$CH_3 - CH - CH_3$$

OH

2-Propanol

Acetone

$$\begin{array}{c} \operatorname{CH_3-C-CH_3} \\ \parallel \\ \operatorname{O} \end{array}$$

2-Propunone

$$CH_3 - C = CH_2$$

2-Methyl, Propens



H,SO, / 110 °C (Hydrolysis)

(Alkalin Hyd.)

СН3-С-СН3

2-Methyl, 2-Propansi

No reaction

Aromatic benzene

(Alkylation)

CH

Toluene

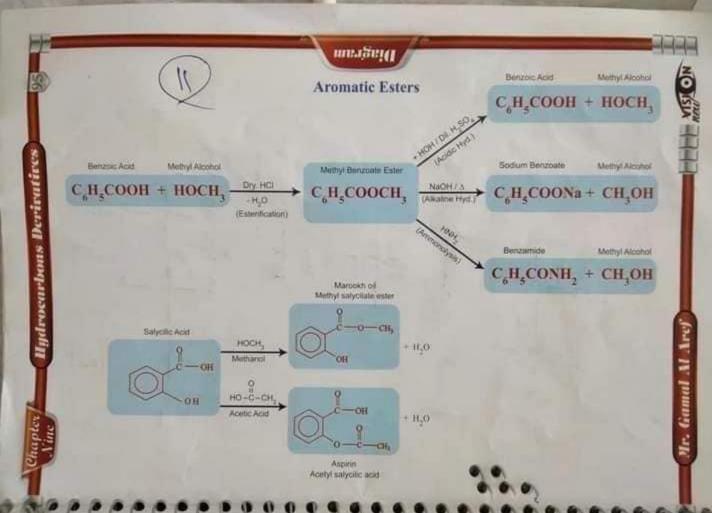
Methyle benzene

NaOH+ CaO/A

+ 30,

(Oxiodation)

Meta Nitro Benzoic acid



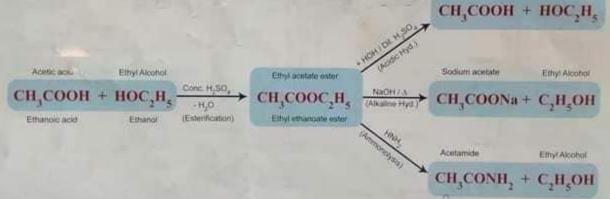
Ethyl Alcohol

Diagram

Aliphatic Esters



Acetic acid



Mr. Gamal Al Arc